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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,636	07/21/2003	Giovanni Manfre'	37886/GM/cb	4567

7590 08/10/2005

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EXAMINER

PAIK, SANG YEOP

ART UNIT	PAPER NUMBER
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3742

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/622,636

Applicant(s)

MANFRE' ET AL.

Examiner

Sang Y. Paik

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 and 17-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 17-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 5-9, 12-15, 17, 18, 20 and 23-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Shirn et al (US 3,686,473).

Shirn shows a heated mirror having a glass body with a reflective and single electrically conductive metal layer/film provided thereon and two conductive busbars made of silver on the metal layer. Shirn further shows that the metal film has the thickness of 300-400 Å which is equivalent to 30-40 nm and the application of 12V to power the metal film.

With respect to claims 12, 14, 17, 20, 23 and 25, the claimed ratio or the resistivity coefficient is inherently met by Shirn as being the inherent properties or functions of the structure having the same metal layer on the glass body with the same conductive busbars.

With respect to the recited process of vacuum arc deposition as well as other processes by which the reflective film and bus-bars are made, it is noted to the applicant that the product-by-process claims are limited by product itself, and the patentability does not depend on the method by which the product is made.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 10, 19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shirn et al (US 3,686,473) in view of Sugiyama et al (EP 0 677 434).

Shirn shows the structure claimed except the glass body being curved.

Sugiyama shows a heated mirror with the glass body which is curved. Furthermore, Sugiyama shows that the reflective conductive metal/film can be made of nichrome or titanium based reflective film.

In view of Sugiyama, it would have been obvious to one of ordinary skill in the art to adapt Shirn with the curved glass body to form a desired shape and to meet various modifications where such mirror mirrors can be used. Furthermore, it would have been obvious to use the titanium based reflective film an alternative film to provide a more stable and secure heating performance.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shirn et al (US 3,686,473) in view of Merz et al (US 4,087,778).

Shirn shows the structure claimed except providing the conductive bars interposed between the conductive film and the glass body.

Merz shows a resistor element whose conductive bus bars (14) are interposed between the glass ceramic body (12) and the conductive film (20). In view of Merz et al, it would have been obvious to one of ordinary skill in the art to adapt Shirn with the bus bars interposed between the glass body and the conductive film as an alternative arrangement to protect the

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busbars as well as to provide a stronger bonding between the bus bars and the reflective heating element.

6. Claims 11 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shirn et al (US 3,686,473) in view of Komatsu (US 5,594,585).

Shirn shows the structure claimed except the reflective film being made of pure titanium.

Komatsu shows a heated mirror with a reflective film (34) made of nichrome or titanium. In view of Komatsu, it would have been obvious to one of ordinary skill in the art to adapt Shirn with the reflective film made of titanium as an alternative material that is known in the art to provide a sufficient heating to heat a glass body.

Response to Arguments

7. Applicant's arguments filed 7/01/05 have been fully considered but they are not persuasive. The applicant argues Shirn does not show the recited 3.5A and the claimed reflective coefficient. Shirn shows the application of the 12V as claimed by the applicant with the resistance of 4-6 ohms produces 20-35 watts. Since $P = I^2 R$ according to the Ohm's law, the current would be .55 to 2.18 with the application of 12 V. This clearly meets the claimed recitation of 3.5A or lower. The recited reflective coefficient would be inherent present in the prior art having the same claimed structure and material, namely, the reflective electrically conductive metal. There is nothing in the claim that would distinguish the structure and the material of the prior from that of the claimed device. Having the same structure and material would inherently display the same properties or characteristics.

8. This is an RCE of applicant's earlier Application No. 10/622,636. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on

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the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y. Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.Y. Paik

Sang Y Paik
Primary Examiner
Art Unit 3742

syp